





HOW? WHY? WHAT?

WHERE DOES TIME GO?

This question had been worrying Kostia for quite a while. Once, when he was alone in the house, he took out Grandpa's fob watch out of a drawer and pressed the button. The lid sprang up like a jack-in-the-box and gave Kostia such a start that he dropped the watch on the floor. When he picked it up and put it to his ear, sure enough, there was no ticking. Kostia promptly put the unfortunate watch back into its drawer and hoped that perhaps, when Grandpa was back, the watch would start telling the time again, as usual. "Probably," thought the boy, "I just don't know what starts it."

But the watch was silent in Grandpa's hands too.
"Actually, it was me that stopped Time, Gramps," confessed Kostia. "I wonder, where Time goes?"
"It's not Time you've stopped, but the watch. But there's nothing much to worry about, we'll take it to the maker's and he'll fix it for us. The question about Time is, I think, much more important. Why don't we look for Time together, what do you say? First we could make a sundial, for example."



were working outside in the gar-den—they had to clear a place, mark out a circle and put in a stick in the centre—they lis-tened to Grandpa's story about how people learnt to tell the

In the days of old people





noticed that night came after day, summer after spring and winter after autumn, and that the Sun replaced the Moon in the sky at fairly regular intervals. Soon they learnt to divide the time into parts: the interval from one winter to another was a Year, from one sunrise to

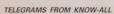
another—a Day. Next they split up the days in even smaller bits and called them Hours. When the Sun is at its highest in the sky, and the shadow on the sundial is the shortest, it is midday, or noon. When the Sun goes down, the shadow gets longer and longer and, what's more, it moves round the dial. This gave people an idea: why not divide the dial into twelve parts and mark the points of the shadow? When it moves from one mark on to the next, it is an hour later. "People can tell time not only by the Sun, but by planets and stars," Grandpa went on. "To know exactly what time it was they started to invent clocks



and watches. First, there were water clocks, then hourglasses, and only then mechanical timepieces. Today watches show hours, minutes and seconds. The latest in watches is the quartz model, known for its high precision. It gets only a second slow or fast in thirty years! The most precise timepieces are atomic ones. But even those have to be put right sometimes."

"Then, Time doesn't really go anywhere, does it?" said the kids.

"No, of course, it doesn't," said Grandpa.
ALEXANDER GEN





Bulgaria has started producing "aromatic re-cords". When you put one on and the music starts, the room fills with some relevant scent—that of a pine forest, or a bunch of lilac, or an apple or-chard, for example.



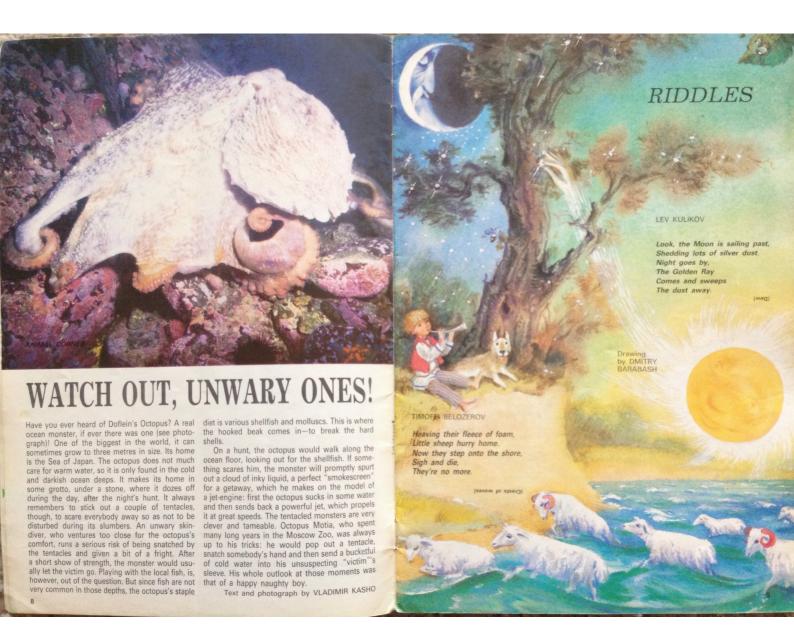
For a long time it was believed that sharks are hard of hearing and almost blind. The recent experiments, however, have quite disproved these myths: sharks are very sensitive to sound and can see beautifully even in the dark.



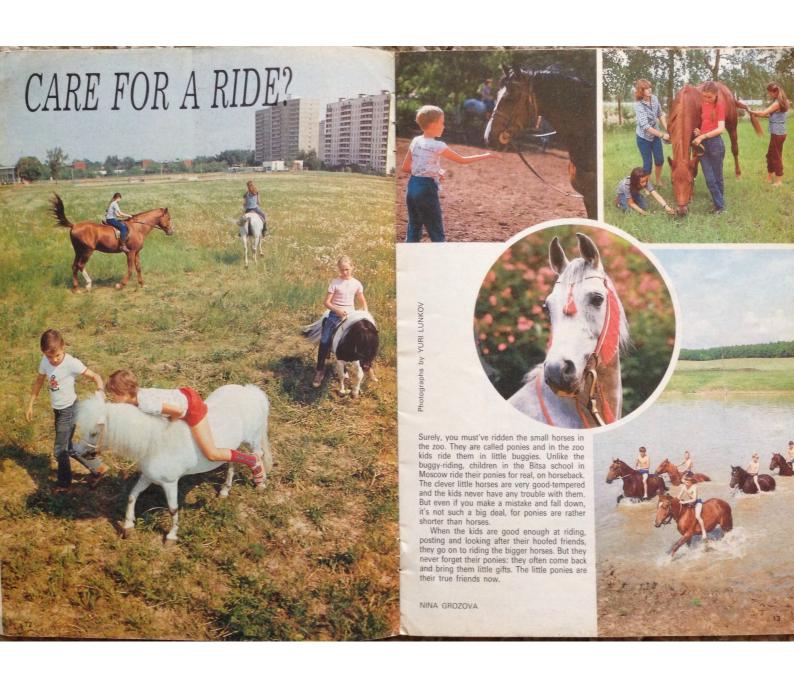
Finnish designers have come up with a car that uses just 0.166 litres (under a glassful) of petrol for every hundred kilometres!

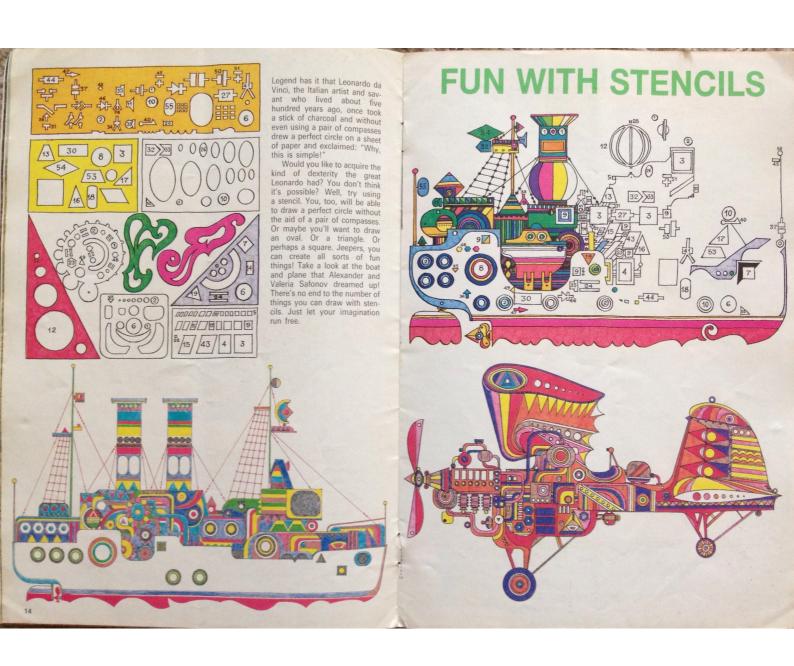


Leningrad engineers designed an electronic thermometer. Shaped like a little pocket diary, the clever gadget takes seconds to tell the temperature.











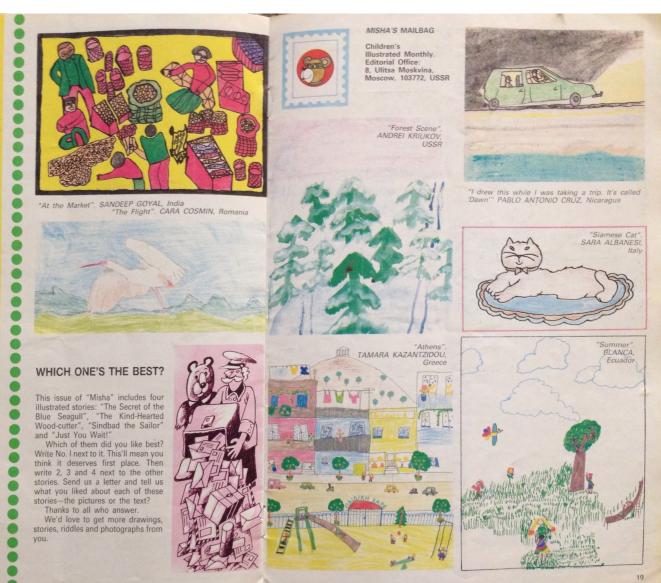


the world.
Did you take a good look at the picture? Remember all the characters that are depicted in it? Check yourself. Of course, Cinderella is an easy one. She's right next to her beautiful slipper. You probably got Tom Thumb right away, too. He managed to free his parents from need. You don't have to be big to be brave!

And who are those two little children strolling along the

And who are those two little children strolling along the path? You guessed it—Hänsel and Gretel. Daring and resourcefulness helped them escape the clutches of the wicked old witch and make their way out of the deep, dark forest. And there's the evil dwarf from Snow White guarding his treasure. He's always latching onto something with that long beard of his! Not far off is the quickwitted soldier from "The Little Blue Candle". And down in the corner is the Golden Goose. Just touch this goose and you won't be able to let go. That's why the townsfolk had to go to the King's castle in one long file.

Did you do well? Good for you!







In order to make this funny caterpillar with balloons you have to know one secret. Look at the picture to find out what it is.



This little girl's name is Polina. She's five years old. And her fun-loving friends are only three days old, even though they look like grown-ups.

Let me explain. Polina caught a cold and the doctor ordered her not to go outside. Polina began to feel sad without play-mates. So I took ordinary balloons, coloured paper and glue, and made these little dolls for my daughter.
It's quite simple. The main thing is getting the

balloons to stick to each other. To do this attach

a string to the tip of the balloon before inflating it. Then blow it up and tie a string around the opening. Now you have a balloon with strings on both ends. This will allow you to connect the balloons. Cut out the eyes, ears and noses from the coloured paper and glue them directly onto the rubber. Then think up of some amusing clothes for the little play-

Designed by TATIANA KISELEVA



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GOOD AFTERNOON!

Read this fairy-tale. The large drawing and small drawing-pointers will help you solve the cross-word puzzle.

READY TO FIGHT

Based on a fairy-tale by IRINA YAKOVLEVA

Once a huge shaggy CLOUD (облако, oblaka) was drifting boastfully across the sky and met another

drifting boastury ecount cloud.

("You go away!" the other cloud became angry.

"Oh! Just you wait!" threatened the first cloud and shoved his foe.

"You are spoiling for a fight!" the second cloud got into a rage, blackened and turned into a STORM-CLOUD (тŷча, túch'a).

The first one also grew dark, frowned and became another storm-cloud.

The two giants collided so ferociously that they saw stars. People in the streets threw back their heads and said:

"Well, this is a LIGHTNING (молния, moin:ya)! There is THUNDER (гром, grom)! It'll be a THUNDERSTORM (гроза, graza)."

Indeed, in a moment the two angry giants burst into tears.

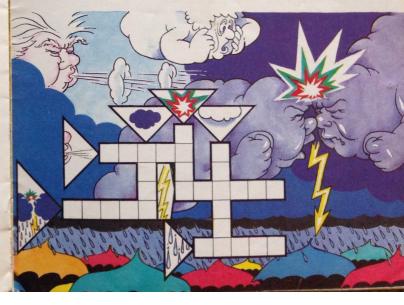
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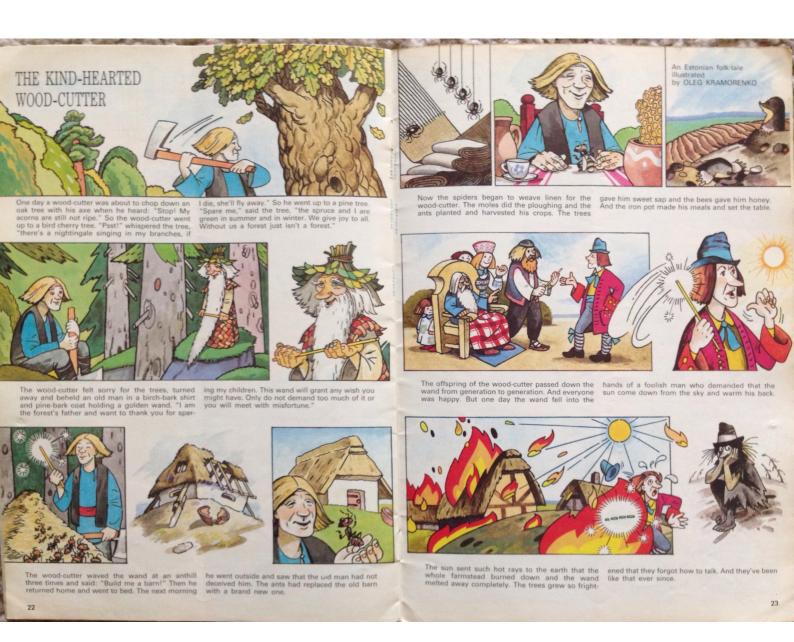
"RAIN (дождь, dosht')! It's raining!" people laughed putting up their umbrellas. And the storm-clouds couldn't stop crying.

"Look, they are melting away," the people said, "soon they'll vanish."

Perhaps it would be so but for the WIND (serep, v'éti:r) which drove the fighters far away. By now they were no longer the huge storm-clouds, but turned into small white clouds.

Drawing by ALEXANDER ARTEMOV







This funny picture is from the cover of the Hungarian magazine Dörmögö Dömötör, a good friend of Misha. Not long ago we visited our Hungarian friends in Budapest, the capital of Hungary. What did our friends talk about? Of course, about boys and girls and what they like to read in magazines. "Kids love to solve riddles and brain-teasers," said Misha So. Dirmänö Dimätör decided to give son. Misha. So Dörmögö Dömötör decided to give you two problems to solve. Here they are.





Can you tell which of the four figures was cut out of this piece of paper?

Help the bunny find everyone that hid in the bushes and branches of the trees. Then colour it all in.



There are many Hungarian girls and boys that read Misha. The members of the Misha club in Pecs couldn't wait to see Misha. "Hellol Hellol" they said to Misha when he arrived.

Then Misha went to the city of Kecskemet where the boys and girls took him to a toy museum and showed him what their moms and dads and grannies and grampies used to play with when they were little. Many of the wonderful toy there were hand-made by master craftsmen.

The Kecskemet kids Misha met are also very skilled with their hands. They model with clay, draw and make different kinds of souvenirs from wool.

Then Misha went back to Budapest where he was met with a big surprise: a visit to the Misha Theatrel Two of the performers of the theatre, Erika Kremenicki and Szilvia Fodor wrote us a letter telling about Misha's visit. It's printed on the next page.



MISHA'S VISIT

We were so glad that Misha came to visit us. We had a little show all ready for him. When we put it on Misha clapped delightedly and said that it was wonderful and beautiful but that it was time for him to go. We asked him where he was off to and he said: "I've got to visit other children who want to see me." And off he went. We were very happy that Misha liked our show.







Souvenir photographs: Young master crafts-men from the city of Young men from the cuy Kecskemét
At the Misha Theatre.
The theatre's emblem
Tractings to Misha "Here I am!" – Dör-mögö Dömötör





RUNNING TAKES SOME LEARNING TOO

"We are going to learn to run," said Misha. "But one day is not enough for anyone to learn to run. So we'll start by getting some exercise. And exercising is always more fun when you do it with



Stand behind one another in a file and start to run. The one who's standing farthest in back has to run past the person farthest in front and become the leader. Once everyone has become the first in line you can all take a little rest.

Now we're going to try something new—running with our legs tied together! Take an elastic band and tie it around your legs to have some 20 to 25 cm between them. Then try running several metres. This is called the "bear walk".



For the next exercise you need to attach one end of the rubber band to a nail or hook at the bottom of a wall. Wrap the other end around one leg. Stand with your back to the wall and try to pull the tethered leg forward as far as you can.

Now take a little knapsack and fill it with four apples, a doll and a small blanket (put the blanket in the part of the knapsack that will be against your back). If there's a hill near your house try running up it with the knapsack. If there's no hill around run up some stairs.







Drawings by VICTOR TRINCHENKO





